EL.	RM. NO.	DESCRIPTION
4'-0"	001	FUEL CASK AREA
4'-0"	002	HVAC SUPPLY EQUIPMENT ROOM
4'-0"	003	HVAC EXHAUST EQUIPMENT ROOM
4'-0"	004	PUMP CUBICLE TRAIN C
4'-0"	005	PUMP CUBICLE TRAIN B
4'-0"	006	PUMP CUBICLE TRAIN A
4'-0"	007	RECIRC. VALVE CUBICLE
4'-0"	007A	SPRAY ADDITIVE TANK CUBICLE
4'-0"	008	RECIRC. VALVE CUBICLE
4'-0"	008A	SPRAY ADDITIVE TANK CUBICLE
4'-0"	009	RECIRC. VALVE CUBICLE
4'-0"	009A	SPRAY ADDITIVE TANK CUBICLE
4'-0"	010	PUMP PULL SPACE
4'-0"	011	
4'-0"	011A	TENDON ACCESS AREA
30'-0"	101	RAIL CAR
30'-0"	102	CASK LOADING AREA
30'-0"	103	NEW FUEL HANDLING AREA
30'-0"	104	HVAC EXHAUST EQUIPMENT RM.
30'-0"	106	S.F.P.P. ROOM
30'-0"	107	S.F.P.P. ROOM
30'-0"	108	
30'-0"	109	SKIMMER PUMP ROOM
30'-0"	109A	ELECTRICAL CHASE
30'-0"	110	RADIOACTIVE PIPE CHASE
30'-0"	110A	ELECTRICAL CHASE
30'-0"	111	SPENT FUEL POOL AREA
53'-0"	112	
53'-0"	112A	TENDON ACCESS AREA
53'-0"	203	NEW FUEL STORAGE
53'-0"	204&205	HVAC EXHAUST EQUIPMENT RM.
53'-0"	206	S.F.P. HEAT EXCHANGER RM.
53'-0"	207	S.F.P. HEAT EXCHANGER RM.
53'-0"	208	
53'-0"	209	RADIOACTIVE PIPE CHASE
68'-0"	301	OPERATING FLOOR
68'-0"	302	OPERATING FLOOR
68'-0"	303	OPERATING FLOOR
68'-0"	304	
68'-0"	305	FUEL SIPPING STATION
68'-0"	306	ELEVATOR MACHINE RM.

KEY NO.	EQUIPMENT NUMBER	DESCRIPTION
01	8V121VFN001	FH HVAC SUPPLY FAN (11A)
02	8V121VFN002	FH HVAC SUPPLY FAN (11B)
03	8V121VFN003	FH HVAC SUPPLY FAN (11C)
04	DELETED	
05	DELETED	
06	DELETED	
07	3V121VAH004	LH SI PUMP SUPPL CLR (11A)
08	3V121VAH005	LH SI PUMP SUPPL CLR (11B)
09	3V121VAH006	LH SI PUMP SUPPL CLR (11C)
10	DELETED	
11	DELETED	
12	DELETED	
13	8V121VHX001	FH HVAC HTG COIL (11A)
14	8V121VHX002	FH HVAC HTG COIL (11B)
15	8V121VHX003	FH HVAC HTG COIL (11C)
16	8V121VHX004	FH HVAC CLG COIL (11A,12A)
17	8V121VHX005	FH HVAC CLG COIL (11B,12B)
18	8V121VHX006	FH HVAC CLG COIL (11C,12C)
19	8V121VFD001	FH HVAC SUP PREFLTR (11A)
20	8V121VFD002	FH HVAC SUP PREFLTR (11B)
21	8V121VFD003	FH HVAC SUP PREFLTR (11C)
22	DELETED	
23	DELETED	
24	DELETED	
25	8V121VFN010	ELEV M/C RM EXH FAN (11A)
26	8V121VFN011	ELEV M/C RM EXH FAN (11B)
27	3V121VAH012	SUP CLR (CS ISO.VA.CUB) (11A)
28	3V121VAH013	SUP CLR (CS ISO VA CUB) (11B)
29	3V121VAH014	SUP CLR (CS ISO VA CUB) (11C)
30	3V121VAH010	SUP CLR (SFPP RM) (11A)
31	3V121VAH011	SUP CLR (SFPP RM) (11B)
32	9V121VAH001	SUP CLR (PASS)

REFERENCE DWGS

1. 9V0068 — HVAC PHYSICAL LAYOUT
2. 9V0069 — " " "
3. 9V0077 — " " "
4. 9V0045 — " " "
5. 9Z41600 THRU 41618 — F.H.B. HVAC MAIN SUPPLY LOGIC DIAGRAMS
6. 0F0001 — P & ID SYMBOLS
7. 0F0002 — P & ID SYMBOLS
8. 9V10004 — HVAC ESSENTIAL CHILLED WATER SYSTEM P & ID
9. 9V0010 — MAB CHILLED WATER SYSTEM P&ID
10. 9F05013 THRU 05014 — LHSI PUMP P&ID
11. 9F05028 & 05029 — SPENT FUEL PUMP P&ID

NOTES

1. ALL DAMPER NUMBERS SHOWN HAVE THE PREFIX 9V121V UNLESS NOTED.
2. SUPPLY SYSTEM IS NON SAFETY AND NON SEISMIC (EXCEPT EQUIPMENT AND DUCTWORK SUPPORTS ARE QUALITY CLASS 7) UNLESS OTHERWISE NOTED. EXHAUST SYSTEM IS SAFETY CLASS 3 AND SEISMIC CATEGORY 1.
3. ✳ VENDOR SUPPLIED INSTRUMENTS
4. DELETED.
5. EXHAUST DUCTWORK SHALL BE LOCATED AT EL.77'-0" CLOSER TO POOL SURFACE TO PICK UP CONTAMINATED AIR AND WATER VAPORS.
6. ALL INSTRUMENTS ON THIS P & ID HAVE SYSTEM DESIGNATOR "MF".
7. ALL INSTRUMENTS ON THIS P & ID HAVE SEPARATION GROUP "N" UNLESS NOTED AT THE FIVE O'CLOCK POSITION.
8. DELETED
9. ALL CFM AIR QUANTITIES AS SHOWN ARE SCFM. (STANDARD CFM)
10. DELETED.
11. FOR ACTUAL AIR FLOW QUANTITIES SEE AS-BUILT CONDITION SHOWN ON THE FINAL BALANCING REPORT (0351100015 A3H FOR UNIT NO.1)
12. LINE 1 1/2" DR1053TC7 WAS INSTALLED AS 1 1/2" ED1465TC7.
13. LINE 1 1/2" DR1054TC7 WAS INSTALLED AS 1 1/2" ED1464TC7.
14. LINES (2) 1 1/2" ED1407TC7 WERE INSTALLED AS ONE LINE, SEPARATED, AND BLINDED, (ABANDONED.)

THE CFM QTY. SHOWN REPRESENTS THE AMOUNT OF AIR EXHAUSTED FROM EACH ROOM.

LR NOTE 1:
NOTE NOT USED

LR NOTE 2:
DRIP PAN AND DRAIN PIPING EVALUATED IN LRID ED.

LR NOTE 3:
DRAIN PAN AND PIPING EVALUATED IN LRID DR.

LR NOTE 4:
THE INTAKE LOUVER IS EVALUATED AS STRUCTURAL STEEL AS PART OF THE STRUCTURE. THIS LOUVER IS NOT PHYSICALLY CONNECTED TO THE TORNADO DAMPER.

LR NOTE 5:
DUCTS DO NOT HAVE A STRUCTURAL INTEGRITY FUNCTION WHEN ATTACHED TO SAFETY-RELATED COMPONENTS.

LR BOUNDARY DRAWING NO.	REV.
LR-STP-HF-5V129V00012*1	0B

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
19	7-9-97	INCORP. DCN 9600073.	SIGNATURES ON FILE				
18	4-15-97	INCORP. DCN 9600049.	SIGNATURES ON FILE				
17	8-26-96	INCORP. DCN 9600074.	SIGNATURES ON FILE				
16	1-8-91	INCORP. DCN MD-1712.	SIGNATURES ON FILE				
15	11-26-90	HL&P ASSUMES DESIGN CHANGE CONTROL & INC. ECN 89-J-0059A.	SIGNATURES ON FILE				
0-14	12-16-82	ISSUED FOR CONSTRUCTION.	SIGNATURES ON FILE				

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
21		INCORP. DCN 0601353.	LNB				
20	9-17-97	INCORP. DCN 9604752.	VJM	ON	FILE		

SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM
HVAC FUEL HANDLING BUILDING
SUPPLY SYSTEM

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA240. 211	D070928		NONE	5V129V00012*1		21

ESEED. DGN